ATLAS.ti Report

XOP\_Encoding\_Proj

Codes

Report created by dyg on Aug 9, 2017

# ● ->

**Created:** 8/4/17 by dyg, **Modified:** 8/4/17 by dyg

Groups:

icon Modifiers

Comment:

Subscoping operator. This means that scopes are nested. For example, if you have a code at position x that reads “Constituent, Description” and then a paragraph/line/s later, at position y, you have “->, Complexity” then you are no denoting teh complexity of the consituent being discussed. This is opposed to having just “Complexity” at position y which would denote the complexity of whatever the previous structuring move was.

# ● <-

**Created:** 8/7/17 by dyg, **Modified:** 8/7/17 by dyg

Groups:

icon Modifiers

Comment:

Subscoping lifting operator. This operator ends subscoping context, returning the scope to whatever the prior scope was. For example if you had “Operation” then a few lines down you have “->” “Complexity” then the scope would be talking about Operation Complexity. If after a few more lines you had “<-“ “Observation” Then you are now making a general observation about the Operation, not the Operation complexity. This is in contrast to just “Observation” which, in this case, would then be making an Observation of the Operation Complexity

# ● Abstraction

**Created:** 7/24/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon Actions

# ● ADT

**Created:** 8/3/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon Concepts

# ● Advantages

**Created:** 8/7/17 by dyg, **Modified:** 8/7/17 by dyg

Groups:

icon Elements of Explanatory Structure

Comment:

This code denotes the pros, the upside or the advantages to that which the context is set to.

# ● Algorithm

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Elements of Explanatory Structure

Comment:

This code denotes that the text is discussing an algorithm in general. This could be the same as the thesis topic, it could be a related algorithm (and have a “Related” modifier) etc.

# ● Application

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Elements of Explanatory Structure

Comment:

This scoping tag denotes that the text is now discussing the Use cases, or applications of the current context. Defaults to the Thesis Topic.

# ● Aside

**Created:** 7/25/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Modifiers

Comment:

This is a special modifier code. It denotes that the input tags describe text that is not directly related to the scope the input tags refer to. Cases where this modifier is used without any accompanying tag are considered equivalent to the tag set “Aside” “Comment”. That is to say, if Aside occurs with no input, then the Comment tag is considered as default input

# ● Assumption

**Created:** 7/25/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon Actions

# ● balanced

**Created:** 8/3/17 by dyg, **Modified:** 8/3/17 by dyg

Groups:

icon In Vivo Terms

# ● Base Case

**Created:** 7/25/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon Actions

# ○ Big Picture

**Created:** 8/3/17 by dyg, **Modified:** 8/3/17 by dyg

# ● Binary Search Trees

**Created:** 8/3/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon In Vivo Terms

# ● Black Box

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Document Level Codes

# ● breadth first search

**Created:** 7/24/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon In Vivo Terms

# ● Cartoon

**Created:** 7/10/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Content Expression

Comment:

The content is represented in a drawn or animated graphic

# ● Cases

**Created:** 7/10/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon Actions

# ● caveat

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Modifiers

Comment:

This modifier takes any number of tags of any type. It denotes that the purpose of the text at hand is to further clarify a point, provide extra detail, or point out a consequence of some aspect of that which is being discussed. Ex: In general, this process will require many rotations for an insert because...

# ● Class

**Created:** 8/3/17 by dyg, **Modified:** 8/7/17 by dyg

Groups:

icon Elements of Explanatory Structure

Comment:

This code denotes the explicit discussion of a group, set or class of some thing.

# ● Code

**Created:** 7/10/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Content Expression

Comment:

The content is represented as a block of code from some programming language

# ● combine

**Created:** 7/25/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon In Vivo Terms

# ● Comment

**Created:** 7/31/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon Actions

# ● comparison sorts

**Created:** 8/2/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon In Vivo Terms

# ● completed vertices

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon In Vivo Terms

# ● Complexity

**Created:** 7/10/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Elements of Explanatory Structure

Comment:

This code denotes that the text is discussing the computational complexity of whatever the context is set to.

# ● Conclusion

**Created:** 8/3/17 by dyg, **Modified:** 8/3/17 by dyg

Groups:

icon Actions

# ● Condition

**Created:** 7/10/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Elements of Explanatory Structure

Comment:

This code denotes that the text is discussing a condition, that whatever the context was set to has, that must be satisfied.

# ● conquer

**Created:** 7/25/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon In Vivo Terms

# ● Constituent

**Created:** 7/31/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Elements of Explanatory Structure

Comment:

This code can be seen as a more general form of “Operation”. This code denotes that the text is discussing some constituent part of whatever the context was set to. This is typically used to denote data structures required for an algorithm.

# ● constraints

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon In Vivo Terms

# ● Contrast

**Created:** 8/4/17 by dyg, **Modified:** 8/4/17 by dyg

Groups:

icon Actions

# ● Data Structure

**Created:** 8/3/17 by dyg, **Modified:** 8/3/17 by dyg

Groups:

icon In Vivo Terms

# ● definition

**Created:** 7/10/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Actions

# ● depth first search

**Created:** 7/24/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon In Vivo Terms

# ● Derivation

**Created:** 7/27/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Actions

# ● Description

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Actions

# ● Design

**Created:** 7/25/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Elements of Explanatory Structure

Comment:

This code denotes that the text is talking about the design, or design considerations of that which the context is set to.

# ● directed graph

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon In Vivo Terms

# ● Disadvantages

**Created:** 8/7/17 by dyg, **Modified:** 8/7/17 by dyg

Groups:

icon Elements of Explanatory Structure

Comment:

This code denotes that the text is discussing the downsides, the cons or shortfalls of whatever the context was set to.

# ● distance matrix

**Created:** 7/31/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon In Vivo Terms

# ● divide

**Created:** 7/25/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon In Vivo Terms

# ● divide and conquer

**Created:** 7/25/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon Concepts  icon In Vivo Terms

# ● dynamic programming

**Created:** 8/1/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon In Vivo Terms

# ● dynamic programming functional equation

**Created:** 8/1/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon In Vivo Terms

# ● Erroneous

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Modifiers

Comment:

This code denotes that the purpose of the text, upon which the input tags represent, is to be incorrect, however that may be defined.

# ● Example

**Created:** 7/10/17 by dyg, **Modified:** 8/7/17 by dyg

Groups:

icon Actions

# ● Explanandoid

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Modifiers

Comment:

This modifier tags takes a scoping tag as input. If denotes that the scoping tag, typically “problem” is used to illustrate something that is close to the thesis topic, but not quite the same. This tag is often used with the “Related” modifier to denote the discussion of a related problem that is similar to the Thesis Topic but is not the thesis topic. Ex: Considering, discussing and explaining the shortest-path problem in relation to the motivating problem for dijkstra’s algorithm.

# ● FIFO

**Created:** 7/24/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon Concepts

# ● Fill the mold

**Created:** 7/25/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Document Level Codes

# ● focus

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Modifiers

Comment:

This modifier denotes the purpose of the text that it is attached to is to further refine some aspect of that which is being discussed. To “focus in” to some aspect of that which is being discussed. This code is most likely no longer useful given that we now have explicit subscoping operators.

# ● frontier

**Created:** 7/24/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon In Vivo Terms

# ● Goal

**Created:** 7/25/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Elements of Explanatory Structure

Comment:

This code denotes that the text is discussing the goal, the end game, that which is the desired outcome, of whatever the context was set to.

# ● Greedy

**Created:** 7/24/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon Concepts  icon In Vivo Terms

# ● History

**Created:** 7/10/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Elements of Explanatory Structure

Comment:

This code denotes that the text is discussing the history of whatever the context was set to.

# ● Implementation

**Created:** 7/25/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Elements of Explanatory Structure

Comment:

This code denotes that the text is discussing implementation details of that which the context is set to. These are things such as “typically algorithm x is not implemented with a fibonnacci heap because of y and z”. This code does not refer to things that are required for the implementation of an algorithm, such as a priority queue for Dijkstra’s. Such things would either be Constituent or Operation tags.

# ● Implication

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Actions

# ● In vivo term introduction

**Created:** 7/10/17 by dyg, **Modified:** 8/7/17 by dyg

Groups:

icon Actions

# ○ Industry

**Created:** 7/31/17 by dyg, **Modified:** 7/31/17 by dyg

# ● Insertion

**Created:** 7/10/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon Concepts  icon In Vivo Terms

# ● internal paths

**Created:** 7/24/17 by dyg, **Modified:** 8/7/17 by dyg

Groups:

icon In Vivo Terms

# ● Invariant

**Created:** 7/10/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon Concepts  icon In Vivo Terms

Comment:

Another in vivo term that may not be transmissible

# ● Legend

**Created:** 7/17/17 by dyg, **Modified:** 8/7/17 by dyg

Groups:

icon Actions

# ● length

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon In Vivo Terms

# ● LIFO

**Created:** 7/24/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon Concepts

# ● Mathematic

**Created:** 7/10/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Content Expression

Comment:

The content is represented using Mathematic formulae, variables, or equations

# ● Meta

**Created:** 7/31/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Modifiers

Comment:

This modifier takes any number of tags of any type. It denotes text that is not directly related to explaining the scope at hand. Ex: This algorithm is hard for many people to understand because of its simplicity.

# ● Motivation

**Created:** 7/10/17 by dyg, **Modified:** 8/7/17 by dyg

Groups:

icon Elements of Explanatory Structure

Comment:

This code denotes that the text is discussing the motivation for whatever the current context is set to.

# ● Observation

**Created:** 8/7/17 by dyg, **Modified:** 8/7/17 by dyg

Groups:

icon Actions

# ● Operation

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Elements of Explanatory Structure

Comment:

This code denotest that the text is discussing an Operation that is a requisite and central part of whatever the current context is set to.

# ● Outline

**Created:** 7/31/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Actions

# ● path

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon In Vivo Terms

# ● Pedagogical

**Created:** 8/1/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Modifiers

Comment:

A modifier, whose purpose is to denote that the specific purpose of a statement is pedagogical in nature.

# ● principle of optimatlity

**Created:** 8/1/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon In Vivo Terms

# ● priority queue

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon In Vivo Terms

# ● Problem

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Elements of Explanatory Structure

Comment:

This code denotes that the text is discussing a problem that is solved by whatever the context is referring to. This does not say what kind of problem it is, such things are handled through modifiers.

# ● Proof

**Created:** 8/4/17 by dyg, **Modified:** 8/4/17 by dyg

Groups:

icon Actions

# ● Property

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Elements of Explanatory Structure

Comment:

This code denotes that the text is now discussing some property of whatever is the current context.

# ● Proposal

**Created:** 7/24/17 by dyg, **Modified:** 8/4/17 by dyg

Groups:

icon Actions

# ● rebalance

**Created:** 7/10/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon Concepts  icon In Vivo Terms

Comment:

rebalance is an in vivo term for Trees in general. This means it will not be able to be applied to other algorithms, perhaps this code should be subsumed into SubOp code.

# ● recurrence

**Created:** 7/25/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon In Vivo Terms

# ● Recursive

**Created:** 7/10/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon Concepts  icon In Vivo Terms

# ● Related

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Modifiers

Comment:

This modifier takes any number of arguments of any type. It denotes that the tags it is attached to are substantially related to the thesis topic in some manner. Ex: The more general shortest-path problem, is related, to the motivating problem for Dijkstra’s algorithm.

# ● Review

**Created:** 7/10/17 by dyg, **Modified:** 8/3/17 by dyg

Groups:

icon Modifiers

Comment:

This modifier takes any number of tags of any type. It denotes that the purpose of those tags is to provide a pedagogical review of the material to the reader.

# ● running time

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon In Vivo Terms

# ● Search

**Created:** 7/10/17 by dyg, **Modified:** 8/7/17 by dyg

Groups:

icon In Vivo Terms

# ● self-teaching

**Created:** 7/25/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Document Level Codes

# ● shortest-path

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon In Vivo Terms

# ● simple paths

**Created:** 7/31/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon In Vivo Terms

# ● Solicitation

**Created:** 7/25/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon Actions

# ● Solution

**Created:** 7/10/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Elements of Explanatory Structure

Comment:

This code denotes that the text is now discussing a solution to whatever is in the current context. This is always used to “close” a previous “Problem” context.

# ● stable sorting

**Created:** 7/25/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon In Vivo Terms

# ● State

**Created:** 8/7/17 by dyg, **Modified:** 8/7/17 by dyg

Groups:

icon Elements of Explanatory Structure

Comment:

This scoping operator denotes that the text is now discussing something related to the state or the state of whatever is in the current context. Defaults to Thesis Topic

# ● stopping rule

**Created:** 8/1/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon In Vivo Terms

# ● Structuring

**Created:** 7/10/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Elements of Explanatory Structure

# ● Summary

**Created:** 7/25/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon Actions

# ● Symmetry

**Created:** 8/7/17 by dyg, **Modified:** 8/8/17 by dyg

Groups:

icon Concepts

# ● Table

**Created:** 8/4/17 by dyg, **Modified:** 8/4/17 by dyg

Groups:

icon Content Expression

Comment:

The content is explicitly displayed in a Table

# ● Thesis Topic

**Created:** 7/24/17 by dyg, **Modified:** 8/8/17 by dyg

# ● undirected graph

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon In Vivo Terms

# ● unvisited

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon In Vivo Terms

# ● weighted

**Created:** 7/24/17 by dyg, **Modified:** 8/1/17 by dyg

Groups:

icon In Vivo Terms